

US008626382B2

(12) United States Patent

Obradovich

(10) Patent No.:

US 8,626,382 B2

701/70; 340/426.31, 465, 575, 576;

(45) **Date of Patent:**

Jan. 7, 2014

180/272

(54) TECHNIQUE FOR OPERATING A VEHICLE EFFECTIVELY AND SAFELY

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 104 days.

(21) Appl. No.: 13/042,304

(22) Filed: Mar. 7, 2011

(65) Prior Publication Data

US 2011/0160964 A1 Jun. 30, 2011

Related U.S. Application Data

- (63) Continuation of application No. 11/837,393, filed on Aug. 10, 2007, now Pat. No. 7,902,969, which is a continuation of application No. 11/226,513, filed on Sep. 13, 2005, now Pat. No. 7,417,531, which is a continuation of application No. 10/380,449, filed as application No. PCT/US01/29425 on Sep. 20, 2001, now Pat. No. 6,982,635.
- (60) Provisional application No. 60/234,134, filed on Sep. 21, 2000, provisional application No. 60/283,685, filed on Apr. 13, 2001.
- (51) **Int. Cl. G06F** 7/**00** (2006.01)
- (52) **U.S. CI.**USPC **701/36**; 701/1; 701/45; 340/540; 340/575; 340/576; 180/272

See application file for complete search history.

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(57) ABSTRACT

A control system is employed in a vehicle to assist a user to operate the vehicle effectively and safely. In accordance with the invention, the system provides driving assistance to the user by taking into account the user's physical condition, the vehicle condition and the surrounding conditions. The surrounding conditions include, e.g., road, weather and traffic conditions, external to the vehicle. The vehicle condition concerns the conditions of the brakes, steering, tires, radiator, etc. of the vehicle. Signs of fatigue, stress and illness of the user are monitored by the control system to assess the user's physical condition.

34 Claims, 15 Drawing Sheets

